

## ABSTRACT OF THE DISCLOSURE

Methods and compositions for modulating angiogenesis in a host are provided. In the subject methods, an effective amount of  $\text{Ca}^{2+}$ /calcineurin/NF-ATc signaling pathway modulatory agent is administered to the host. In many embodiments, the  $\text{Ca}^{2+}$ /calcineurin/NF-ATc signaling pathway modulatory agent is an NF-ATc antagonist, e.g., in those embodiments of inhibiting angiogenesis. The subject methods find use in a variety of different applications, including the inhibition of tumor growth and the treatment of disease conditions characterized by tumor presence. Also provided are methods of screening for agents that inhibit angiogenesis by modulating the  $\text{Ca}^{2+}$ /calcineurin/NF-ATc signaling pathway.